

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the above-referenced application.

Listing of Claims:

Claims 1 - 3 (Cancelled)

4. (Currently amended) A mobile communication terminal, comprising:

image projection means for projecting one of a plurality of predefined ~~[[an]]~~ operation-plane images that displays virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image projected by the image projection means;

data processing means for performing a predetermined data process based on the detection result of operation detected by the operation detection means; and

application execution management means for managing execution environment of an application program selected from a plurality of application programs that is downloaded via a mobile communication network; wherein

the image projection means projects an operation-plane image corresponding to recognition function designated by designation information received from the application execution management means, from among the ~~[[a]]~~ plurality of ~~kinds of mutually different~~ predefined operation-plane images; and

the operation detection means has a plurality of kinds of mutually different recognition functions to recognize operation content by at least one of position, direction and movement of an operation object on the plurality of ~~kinds of~~ predefined operation-plane images, and detects operation on the operation-plane image by using the recognition function designated by designation information received from the application execution management means.

5. (Cancelled)

6. (Currently amended) A mobile communication terminal, comprising:

image projection means for projecting one of a plurality of predefined [[an]] operation-plane images that displays virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image projected by the image projection means;

data processing means for performing a predetermined data process based on the detection result of operation detected by the operation detection means; and

application execution management means for managing execution environment of an application program selected from a plurality of application programs that is downloaded via a mobile communication network; wherein

the image projection means projects an operation-plane image corresponding to recognition function designated by designation information received from the application execution management means, from among the [[a]] plurality of ~~kinds of mutually different~~ predefined operation-plane images; and

the operation detection means has a plurality of kinds of mutually different recognition functions to recognize operation content by at least one of position, direction and movement of an operation object on the plurality of ~~kinds of~~ predefined operation-plane images, and detects operation on the operation-plane image by using the recognition function corresponding to the operation-plane image designated by designation information received from the application execution management means.

7. (Currently amended) A mobile communication terminal, comprising:

image projection means for projecting one of a plurality of predefined [[an]] operation-plane images that displays virtually an operation-plane of an operation device operated by users;

operation detection means for detecting operation on the operation-plane image projected by the image projection means;

data processing means for performing a predetermined data process based on the detection result of operation detected by the operation detection means;

memory means for ~~memorizing~~ storing a plurality of image data corresponding to each one of [[a]] the plurality of kinds of predefined operation-plane images;

application execution management means for executing an application program selected from a plurality of kinds of application programs that is downloaded via a mobile communication network; and

instruction generation means for generating an operation-plane image selection instruction in accordance with content of the selected application program; wherein

the image projection means selects an image data from the plurality of image data memorized in the memory based on the operation-plane image selection instruction generated by the instruction generation means, and projects the operation-plane image of the selected image data; and

the application execution management means performs a data process corresponding to operation detected by the operation detection means in accordance with the content of the application program during execution of the selected application program.

Claims 8 – 11 (Cancelled).

12. (Currently amended) A mobile communication terminal according to claim 4, 6, or 7, [[or 8,]] wherein

the mobile communication terminal is configured by using a light source, a spatial light modulation unit for modulating light output from the light source, and an optical system for projection imaging that projects by imaging a light image output from the spatial light modulation unit on an external projection screen,

the mobile communication terminal comprises an optical system for diffused illumination for homogenously illuminating by diffusing light output from the light source to an external illumination plane, and

the light source and the spatial light modulation unit are both shared to generate a light image subject to projection and generate a light subject to diffused illumination.

13. (Original) A mobile communication terminal according to claim 12, the mobile communication terminal comprising:

a camera unit that generates image data by transforming the light-image to electric signals; and

an optical system for camera imaging for imaging the light image subject to shooting on the camera unit; wherein

the operation detection means is configured by using operation object detection means for detecting at least one of position, direction, and movement of an operation object operating on the operation-plane image and operation detection data generation means for generating operation detection data corresponding to position, direction or movement of the operation object based on the detection results of the operation object detection means; and

the camera unit and the optical system for camera imaging are both shared as the operation object detection means.

14. (Cancelled)

15. (New) A mobile communication terminal, comprising:

an image projector that projects one of a plurality of predefined operation-plane images that displays virtually an operation-plane of an operation device;

an operation detector that detects operation on the operation-plane image projected by the image projector;

a data processor that performs a predetermined data process based on the detection result of operation detected by the operation detector; and

an application execution management device that manages an execution environment of an application program selected from a plurality of application programs that is downloaded via a mobile communication network, wherein

the image projector projects an operation-plane image corresponding to recognition function designated by designation information received from the application execution management device, from among the plurality of predefined operation-plane images; and

the operation detector has a plurality of kinds of mutually different recognition functions to recognize operation content by at least one of position, direction and movement of an operation object on the plurality of predefined operation-plane images, and detects operation on the operation-plane image by using the recognition function designated by designation information received from the application execution management device.

16. (New) A mobile communication terminal according to claim 15,

wherein the mobile communication terminal is configured by using a light source, a spatial light modulation unit for modulating light output from the light source, and an optical system for projection imaging that projects by imaging a light image output from the spatial light modulation unit on an external projection screen,

wherein the mobile communication terminal comprises an optical system for diffused illumination for homogenously illuminating by diffusing light output from the light source to an external illumination plane, and

wherein the light source and the spatial light modulation unit are both shared to generate a light image subject to projection and generate a light subject to diffused illumination.

17. (New) A mobile communication terminal according to claim 16, the mobile communication terminal comprising:

a camera unit that generates image data by transforming the light-image to electric signals; and

an optical system for camera imaging for imaging the light image subject to shooting on the camera unit; wherein

the operation detector is configured by using an operation object detector that detects at least one of position, direction, and movement of an operation object operating on the operation-plane image and an operation detection data generator that generates operation detection data corresponding to position, direction or movement of the operation object based on the detection results of the operation object detector; and

the camera unit and the optical system for camera imaging are both shared as the operation object detector.

18. (New) The mobile communication terminal according to claim 15, further comprising:

a memory that stores the plurality of predefined operation-plane images.